

# Coupling for Fiberglass Reinforced Plastic Pipe

STYLE 296A

## ⚠ WARNING

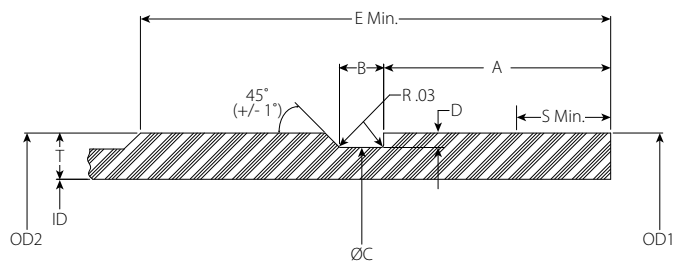


- Read and understand all instructions before attempting to install any Victaulic piping products.
- These products must be used only on fiberglass reinforced plastic pipe that is manufactured with special ends containing Victaulic Advanced Groove System (AGS) grooves.
- Depressurize and drain the piping system before attempting to install, remove, or adjust any Victaulic piping products.
- Wear safety glasses, hardhat, and foot protection during installation.

Failure to follow these instructions could result in serious personal injury, improper product installation, and/or property damage.

### INSPECTION OF PIPE ENDS

Prior to installation, the pipe ends must be inspected to ensure the outside surface, between the groove and the pipe end, is smooth and free from indentations and projections to ensure a leak-tight seal (refer to the “s” minimum dimension). All oil, grease, and, dirt must be removed. In addition, the groove and pipe dimensions must be verified to ensure they comply with the specifications listed in the table below. If any measurements do not comply with these specifications, the pipe must not be used.



### Groove Specifications for ID-Based Fiberglass Reinforced Plastic Pipe

Nominal Size (ID) inches	Dimensions – inches/millimeters														
	Pipe End Outside Diameter (OD1)			OD2 +/- 0.04/ +/- 1.0	A			B		ØC		D Ref.	E Minimum	S Minimum	T Ref.
	Basic	Maximum	Minimum		Basic	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum				
1	1.660 42.2	1.680 42.7	1.640 41.7	1.66 42	0.620 15.7	0.630 16.0	0.590 15.0	0.280 7.1	0.250 6.4	1.480 37.6	1.440 36.6	0.090 2.3	1.50 38	0.50 13	0.330 8.4
2	2.750 69.9	2.770 70.4	2.730 69.3	2.75 70	0.620 15.7	0.630 16.0	0.590 15.0	0.280 7.1	0.250 6.4	2.570 65.3	2.530 64.3	0.090 2.3	1.50 38	0.50 13	0.375 9.5
3	3.940 100.1	3.960 100.6	3.920 99.6	3.94 100	0.780 19.8	0.790 20.1	0.750 19.1	0.280 7.1	0.250 6.4	3.740 95.0	3.700 94.0	0.100 2.5	1.81 46	0.50 13	0.470 11.9
4	4.865 123.6	4.885 124.1	4.845 123.1	4.86 123	0.970 24.6	0.980 24.9	0.940 23.9	0.280 7.1	0.250 6.4	4.645 118.0	4.605 117.0	0.110 2.8	2.25 57	0.50 13	0.433 11.0
6	7.000 177.8	7.020 178.3	6.980 177.3	7.00 178	1.370 34.8	1.380 35.1	1.340 34.0	0.400 10.2	0.370 9.4	6.765 171.8	6.725 170.8	0.118 3.0	3.15 80	0.75 19	0.500 12.7
8	9.170 232.9	9.190 233.4	9.150 232.4	9.17 233	1.780 45.2	1.790 45.5	1.750 44.5	0.400 10.2	0.370 9.4	8.885 225.7	8.845 224.7	0.143 3.6	4.00 102	0.75 19	0.585 14.9
10	11.310 287.3	11.335 287.9	11.285 286.6	11.31 287	2.190 55.6	2.205 56.0	2.155 54.7	0.530 13.5	0.500 12.7	11.015 279.8	10.975 278.8	0.148 3.8	5.00 127	0.75 19	0.655 16.6
12	13.340 338.8	13.365 339.5	13.315 338.2	13.34 339	2.560 65.0	2.575 65.4	2.525 64.1	0.530 13.5	0.500 12.7	13.015 330.6	12.975 329.6	0.163 4.1	5.69 145	0.75 19	0.670 17.0

**NOTE:** All dimensions are after resin coating is applied to exposed fibers, if applicable.

### INSTALLATION



**1. CHECK GASKET AND LUBRICATE:** Check the gasket to make sure it is suitable for the intended service. Apply a thin coat of Victaulic Lubricant or silicone lubricant to the gasket lips and exterior.

## ⚠ CAUTION

- Always use a compatible lubricant to prevent the gasket from pinching or tearing during installation.

Failure to follow this instruction could result in joint leakage.

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**2. POSITION GASKET:** Position the gasket over the pipe end. Make sure the gasket does not overhang the pipe end.



**3. JOIN PIPE ENDS:** Align and bring the two pipe ends together. Slide the gasket into position and center it between the groove in each pipe end. Make sure no portion of the gasket extends into the groove in either pipe end. **NOTE:** The pipe ends should be butted; however, if a gap is present between the pipe ends, the gap must not exceed  $\frac{1}{16}$  inch/1.5 mm.

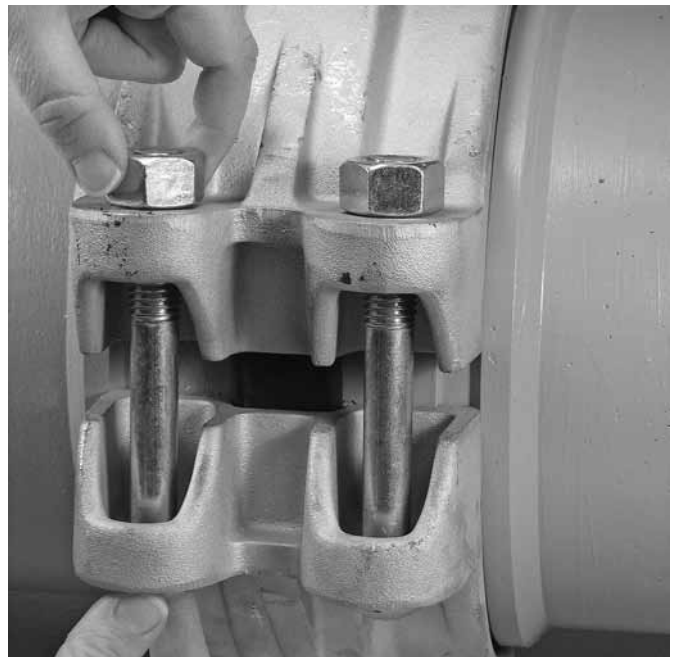


**4. INSTALL HOUSINGS:** Install the housings over the gasket. Make sure the housings' keys engage the grooves properly on both pipes.

### **CAUTION**

- Make sure the gasket does not become rolled or pinched while installing the housings.

Failure to follow this instruction could cause damage to the gasket, resulting in joint leakage.



**5. INSTALL BOLTS/NUTS:** Install the bolts, and thread a nut finger-tight onto each bolt. **NOTE:** Make sure the oval neck of each bolt seats properly in the bolt hole.

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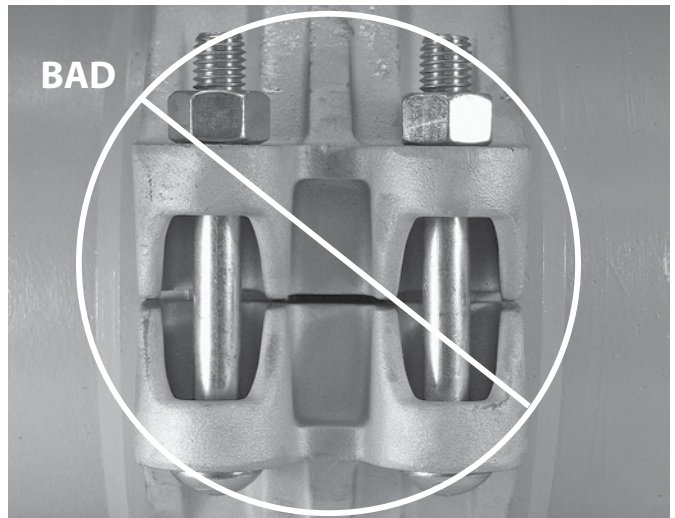
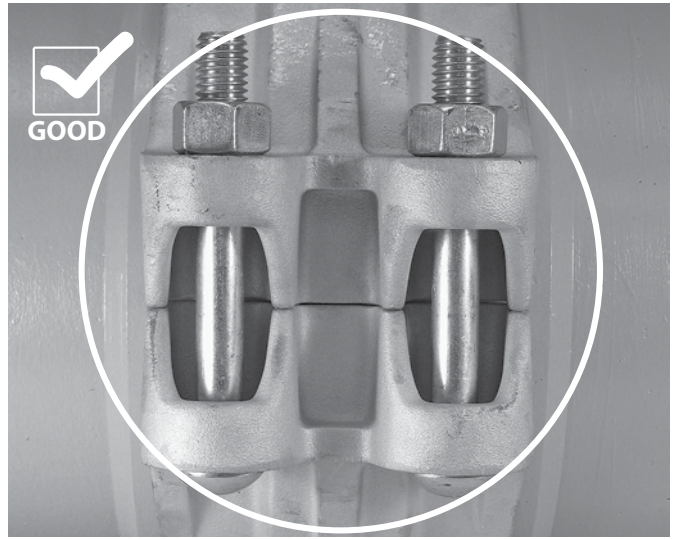


**6. TIGHTEN NUTS:** Tighten all nuts evenly by alternating sides in a crossing pattern until metal-to-metal contact occurs at the bolt pads. Make sure the housings' keys engage the grooves completely. **NOTE:** It is important to tighten the nuts evenly to prevent gasket pinching.

**⚠ WARNING**

- For proper assembly, the nuts must be tightened until metal-to-metal contact occurs at the bolt pads.
- Keep hands away from coupling openings during tightening.

Failure to follow these instructions could cause joint failure, serious personal injury, and property damage.



**7. INSPECT JOINT:** Visually inspect the bolt pads at each joint to ensure metal-to-metal contact is achieved.

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For complete contact information, visit [www.victaulic.com](http://www.victaulic.com)

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